

An Index Bibliography of Wildlife Research in the U.S. National Parks

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Compiled by
R. Gerald Wright

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in the
U.S. National Parks**


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Introduction

Throughout their history, national parks have played an extremely important role in protecting and managing wild animals. Between one-third and one-half of the rare and endangered species in the United States occur within units of the National Park System. Animal life is protected in parks, and animals are not pursued by hunters and are less likely to be harassed by environmental alterations. They are easier to see in parks than on other lands. The result is that national parks have become renowned for the opportunities they offer to view animals in a natural setting and observing animal life is a major reason people visit parks.

Because of these factors, national parks have also been an important place to study animal life. Throughout the history of parks, much of this study has been conducted independently of the National Park Service (NPS), primarily by academic researchers. However, because of growing needs to better understand park resources, the agency developed its own research program. As a program of scientific study evolved in the National Park Service, it was inexorably linked with the history of animal study in the parks. In fact, more study has been devoted to animal life in parks than to any other single resource.

Through the years, animal studies have greatly increased in number and have become more sophisticated in scope and methodology. Because of this, a tendency exists among contemporary researchers to neglect earlier studies. This is particularly true with respect to the current emphasis to develop inventory and monitoring programs. It is a mistake to neglect earlier studies. Although many of the early works cited in this manuscript sometimes consisted of little more than cursory surveys and personal observations, they were often conducted by discerning naturalists whose insights are invaluable and provide important insights into past conditions in the national parks.

The purpose of this publication is in part to alert the current generation of park wildlife researchers to the tremendous legacy of knowledge that already exists, often in obscure and, unfortunately, difficult to locate papers. The simple premise underlying this concept is that understanding the past will help provide the foundation for current long-term monitoring programs and synthesis efforts and will help identify potential information gaps. This manuscript, therefore, catalogs, organizes, and lists in a logical manner most wildlife studies that have taken place in national parks.

Updating the Information in this manuscript

Although 2424 separate reports are documented in this manuscript, the report is not complete. It was not possible to visit all park libraries and/or archival files. In addition, new works are constantly being produced. The author's future aim is to incorporate the information in this report along with any new material into a searchable computer database which will be made available to all interested parties. Special initiative funding for this project has been secured, and the database should be available in the summer of 1991. Therefore, copies or citations of all pertinent material not included in this manuscript will be added to the database and included in any future updates of this report.

What Does the Record Show?

Distribution Among Parks

The 10 parks with the highest proportion of wildlife studies are presented in Table 1. Although certain parks clearly dominate the record, the efforts have been fairly widespread, with over 50 parks having had at least 25 studies.

Table 1. Parks with highest proportion of wildlife studies

Park	Proportion of Studies (%)
Yellowstone	10
Olympic	8
Great Smoky Mountains	5
Big Bend	4.5
Grand Teton	4
Grand Canyon	4
Rocky Mountain	4
North Cascades	3
Mt. Rainier	3
Isle Royale	3

(Total studies = 2424).

Temporal Distribution of Studies

The temporal distribution of the studies is shown in Table 2. As one would expect, the greatest proportion of the work has occurred within the last two decades. However, a considerable volume of work, particularly when compared with the years before and after, occurred in the period from the mid-1930s to early 1940s. This was an exciting

time for NPS scientific study. Supported primarily by the Civilian Conservation Corp program, the National Park Service employed 23 wildlife technicians who were involved in a variety of efforts, including species restoration and habitat analysis. The studies produced by individuals such as Victor Cahalane, Joseph Dixon, Russell Grater, William McDougall, Fred Packard, Merlin Potts, Lowell Sumner, and George Wright identified, often for the first time, many basic management problems, stimulated solutions, and formulated the first park wildlife management policies. Although many of these earlier studies were primarily surveys and special investigations of specific problems, the photographs in the reports and the authors' insights provide valuable baseline data with which to compare current conditions. The diligence of these early scientists set a standard that would be unmatched for several decades.

Table 2. Temporal distribution of scientific studies in parks.

Time Period	Number of Studies
Before 1916	29
1916-1932	70
1933-1942	244
1943-1962	317
1963-1972	333
1973-1980	694
1981-1989	678

Note: Time intervals are arbitrarily defined by external events which affected the Park Service. Totals reflect all studies that had a date of publication.

With the advent of World War II, funding and personnel for biological research in the National Park Service essentially disappeared. Active support for scientific study in the parks did not reappear for almost 25 years. This is evident in the decline in the publication record during this time. Currently support for science in the National Park Service is higher than it ever has been. The increase in concern for and knowledge about park resources is exemplified in the large increase in studies in the last 15 years. Parks provide important research laboratories for individuals outside the agency, particularly in universities. The record shows, for example, that over 10% of the studies carried out in parks have been graduate theses.

Subjects Studied

The overwhelming majority of animal research in parks has been species specific. As might be expected, large mammals such as elk, bear, bighorn sheep, and deer have dominated the record (Table 3). The 10 most studied mammals account for over 41% of all studies. The largest individual category of studies in parks, however, involves those on various passerine bird species, which account for almost 12% of all works.

Table 3. Animal species most studied in national parks.

Species	Number of Studies
Rocky Mountain Elk	190
Bighorn Sheep	137
Grizzly Bear	113
Black Bear	109
Mountain Goat	96
Mule Deer	91
White-tailed Deer	72
Wolf	71
Moose	63
Roosevelt Elk	55

Many of the species studied (e.g., wolves, grizzly bears, Roosevelt elk, and mountain goats) are either rare or are found in only a few continental U.S. parks. Likewise considerable effort has been devoted to the study of species which are not native components of a park's fauna. Burros, wild pigs, and other exotic species account for 134 studies. (It should also be noted that most of the mountain goat studies are from Olympic where the species is an exotic.) The fact that such categories of species have received so much attention provides some insight into the rationale underlying the funding of park wildlife studies. Species which are rare, glamorous, and/or a problem receive priority.

Few studies have attempted to synthesize information and fewer still have examined ecological processes. This fact has compromised a scientist's ability to truly understand how park ecosystems work, and therefore to predict future changes in them. The lack of effort devoted to these factors is, however, now recognized, and recent national initiatives have been designed to learn more about the ecological processes which govern park ecosystems.

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